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- 1 Deferred incremental refresh of XML materialized views: algorithms, performance evaluation**

Hyunchul Kang, Hosang Sung, ChanHo Moon

January 2003 **ADC '03: Proceedings of the 14th Australasian database****Volume 17**, Volume 17**Publisher:** Australian Computer Society, Inc.

Full text available: Pdf (475.08 KB) Additional Information: full citation, abstract, referer terms

**Bibliometrics:** Downloads (6 Weeks): 0, Downloads (12 Months): 19, Citation

The view mechanism can provide the user with an appropriate portion c through data filtering and integration. Views are often materialized for c performance improvement, and in that case, their consistency needs to against ...

**Keywords:** XML, deferred incremental view refresh, materialized view, data

- 2 Mobile agent-based services for view materialization**

Kyriakos Karenos, George Samaras, Panos K. Chrysanthis, Evangelia Pitour

**Publisher:** ACM

Full text available: Pdf (537.45 KB) Additional Information: full citation, abstract, referer

**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 45, Citation

Mobile agents are ideal for mobile computing environments because of i support asynchronous communication and disconnected data processing we present a prototype set of extensible mobile-agent based services th

- 3 Compiling mappings to bridge applications and databases**

Sergey Melnik, Atul Adya, Philip A. Bernstein

 November 2008 **Transactions on Database Systems (TODS)**, Volume 33 Issue 4
**Publisher:** ACM 

Full text available: Pdf (1.40 MB) Additional Information: full citation, abstract, referer

**Bibliometrics:** Downloads (6 Weeks): 69, Downloads (12 Months): 409, Citation

Translating data and data access operations between applications and d longstanding data management problem. We present a novel approach in which the relationship between the application data and the persisten

**Keywords:** Mapping, query rewriting, updateable views



A software engineering perspective on algorithmics

Karsten Weihe

March 2001 **Computing Surveys (CSUR)**, Volume 33 Issue 1

Publisher: ACM Request Permissions

Full text available: Pdf (1.62 MB) Additional Information: full citation, abstract, referer review

**Bibliometrics:** Downloads (6 Weeks): 54, Downloads (12 Months): 237, Citations: 0

An algorithm component is an implementation of an algorithm which is to be a stand-alone module, but to perform a specific task within a large system or even within several distinct software packages. Therefore, ...

**Keywords:** algorithm engineering**5 Maintenance of  $K$ -nn and spatial join queries on continuously moving objects**

Glenn S. Iwerks, Hanan Samet, Kenneth P. Smith

June 2006 **Transactions on Database Systems (TODS)**, Volume 31 Issue 2

Publisher: ACM Request Permissions

Full text available: Pdf (2.49 MB) Additional Information: full citation, abstract, referer review

**Bibliometrics:** Downloads (6 Weeks): 11, Downloads (12 Months): 119, Citations: 0

Cars, aircraft, mobile cell phones, ships, tanks, and mobile robots all have the property that they are moving objects. A kinematic representation can't describe the location of these objects as a function of time. For example ...

**Keywords:**  $k$ -nearest neighbor, Moving object databases, continuously materialized view maintenance, spatial join, temporal databases**6 Robust approximate aggregation in sensor data management systems**

Jeffrey Considine, Marios Hadjieleftheriou, Feifei Li, John Byers, George Kotsiantis

April 2009 **Transactions on Database Systems (TODS)**, Volume 34 Issue 1

Publisher: ACM Request Permissions

Full text available: Pdf (694.94 KB) Additional Information: full citation, abstract, referer review

**Bibliometrics:** Downloads (6 Weeks): 47, Downloads (12 Months): 80, Citations: 0

In the emerging area of sensor-based systems, a significant challenge is to develop scalable, fault-tolerant methods to extract useful information from the collected data. An approach to this data management problem is the use of sensor networks.

**Keywords:** Sensor databases, aggregation, approximation algorithms, synopses**7 Probabilistic top- $k$  and ranking-aggregate queries**

Mohamed A. Soliman, Thabtah Faraj, Kevin Chen-Chang Chang

August 2008 **Transactions on Database Systems (TODS)**, Volume 33 Issue 3

Publisher: ACM Request Permissions

Full text available: Pdf (1.35 MB) Additional Information: full citation, abstract, referer review

**Bibliometrics:** Downloads (6 Weeks): 25, Downloads (12 Months): 348, Citations: 0

Ranking and aggregation queries are widely used in data exploration, decision-making scenarios. While most of the currently proposed ranking and aggregation techniques focus on deterministic data, several emerging applications involve ...

**Keywords:** Query processing, aggregation, probabilistic data, ranking,

**8 Efficient gathering of correlated data in sensor networks**

Himanshu Gupta, Vishnu Navda, Samir Das, Vishal Chowdhary

January 2008 **Transactions on Sensor Networks (TOSN)**, Volume 4 Issue 1

Publisher: ACM Request Permissions

Full text available: Pdf (488.21 KB) Additional Information: full citation, abstract, referer

**Bibliometrics:** Downloads (6 Weeks): 22, Downloads (12 Months): 472, Citatic

In this article, we design techniques that exploit data correlations in sensor networks to minimize communication costs (and hence, energy costs) incurred during data gathering in a sensor network. Our proposed approach is to select a small subset

**Keywords:** Correlated Data, Energy Efficiency, Topology Control

**9 Rank-aware query optimization**

Ihab F. Ilyas, Rahul Shah, Walid G. Aref, Jeffrey Scott Vitter, Ahmed K. El-Helw

June 2004 **SIGMOD '04: Proceedings of the 2004 ACM SIGMOD international conference on Management of data**

Publisher: ACM Request Permissions

Full text available: Pdf (281.93 KB) Additional Information: full citation, abstract, referer

**Bibliometrics:** Downloads (6 Weeks): 13, Downloads (12 Months): 107, Citatic

Ranking is an important property that needs to be fully supported by column-oriented query engines. Recently, several rank-join query operators have been proposed to support rank aggregation algorithms. Rank-join operators progressively rank the

**10 Relaxed-currency serializability for middle-tier caching and replication**

Philip A. Bernstein, Alan Fekete, Hongfei Guo, Raghu Ramakrishnan, Pradeep Sen

June 2006 **SIGMOD '06: Proceedings of the 2006 ACM SIGMOD international conference on Management of data**

Publisher: ACM Request Permissions

Full text available: Pdf (418.33 KB) Additional Information: full citation, abstract, referer terms

**Bibliometrics:** Downloads (6 Weeks): 10, Downloads (12 Months): 127, Citatic

Many applications, such as e-commerce, routinely use copies of data that coexist with the database due to heuristic caching strategies used to enhance performance. We study concurrency control for a transactional model that allows update to

**Keywords:** caching, database, freshness constraint, replication, serialization, transaction

**11 Efficient gathering of correlated data in sensor networks**

Himanshu Gupta, Vishnu Navda, Samir R. Das, Vishal Chowdhary

May 2005 **MobiHoc '05: Proceedings of the 6th ACM international symposium on Mobile ad hoc networking and computing**

Publisher: ACM Request Permissions

Full text available: Pdf (299.31 KB) Additional Information: full citation, abstract, referer

**Bibliometrics:** Downloads (6 Weeks): 12, Downloads (12 Months): 111, Citatic

In this paper, we design techniques that exploit data correlations in sensor

minimize communication costs (and hence, energy costs) incurred during  
in a sensor network. Our proposed approach is to select a small subset

**Keywords:** correlated data, energy efficiency, topology control

**12** Hashconsing in an incrementally garbage-collected system: a story of  
and hashconsing in ocaml 3.10.2

Pascal Cuoq, Damien Doligez

September 2008 **ML '08**: Proceedings of the 2008 ACM SIGPLAN workshop on

**Publisher:** ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (271.30 KB) Additional Information: [full citation](#), [abstract](#), [referenc](#)

**Bibliometrics:** Downloads (6 Weeks): 19, Downloads (12 Months): 85, Citation

This article describes the implementations of weak pointers, weak hash  
hashconsing in version 3.10.2 of the Objective Caml system, with focus  
performance pitfalls and their solutions.

**Keywords:** garbage collection, hash-consing, maximal sharing, ocaml,  
weak pointers, weak references

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